

ABSTRACT OF THE DISCLOSURE

An automated name searching system incorporates an automatic name
5 classifier and a multi-path architecture in which different algorithms are applied based
on cultural identity of the query name. The name classifier operates with a
preemptive list, analysis of morphological elements, length, and linguistic rules. A
name regularizer produces a character based computational representation of the
name. A pronunciation equivalent representation such as an IPA language
10 representation, and language specific rules to generate name searching keys, are used
in a first pass to eliminate database entries which are obviously not matches for the
query name. The methods can also be implemented as a callable set of library
routines including an intelligent preprocessor and a name evaluator that produces a
score comparing a query name and database name, based on a variety of user-
15 adjustable parameters. The user-controlled parameters permit tuning of the search
methodologies for specific custom applications.

20250201 09:51:00